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TITLE: SOLID POLYMERIC FUEL CELL
ELECTRODE AND MANUFACTURE
THEREOF

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INVENTOR-INFORMATION:

NAME

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ASSIGNEE-INFORMATION:

NAME

COUNTRY

TOKYO GAS CO LTD

N/A

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ABSTRACT:

PURPOSE: To provide the subject electrode having a uniform and high capability free from a crack and an impurity by applying the specified

treatment to the surface layer thereof, regarding the prescribed form of a solid polymeric fuel cell electrode.

CONSTITUTION: This electrode 4 is a type of solid polymeric fuel cell electrode using a mixture of catalyst particles (e.g. carbon blacks carrying platinum thereon), a polymeric electrolyte (e.g. perfluorocarbon sulfonic acid resin) and polytetrafluoro ethylene. Regarding this electrode 4, the whole area of an electrode surface layer as a catalyst layer preferably formed on water repellent carbon paper as a gas diffusion layer is coated with a solution of a solid polymeric electrolyte (e.g. alcohol solution) and, then, a solvent in the solution is heated up to a temperature level above a boiling point and removed with waver vapors. For example, the electrode 4 is placed on a well ventilated seat 3 of a metallic mesh and water in a vessel 2 is heated with on the operation of a heater 1. Water vapors are thereby generated and the temperature of the seat 3 is maintained at a level above the boiling point of the solvent.

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